

17 March		SEC. CL. C	ORIGIN [REDACTED]		CONTROL NO. DRAFT 25X
DATE OF DOC	DATE REC'D 20 Mar.	DATE OUT	SUSPENSE DATE	CROSS REFERENCE OR POINT OF FILING	
TO -- FROM -- SUBJ. Staff Study on Advanced Stereo Rhomboid Prototype Model II #02087				ROUTING	DATE SENT
Declass Review by NGA.				BN	
				DS	
COURIER NO.	ANSWERED	NO REPLY			2

SECRETARY Czrole B
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TDS/DS TYPE SLIP

SUBJECT: STuff Study

ORIGINATOR: DATE: 17 March

CLASSIFICATION: Conf PROJECT NO. 02087

	DRAFT:	INITIALS:	FILE COPY:
1	TYPE ROUGH	<u>BAB</u>	D/CH, DS
2	BRANCH CHIEF	<u></u>	ORIGINATOR
3	ORIGINATOR	<u></u>	SEC. FOR
	TYPE SMOOTH	<u></u>	FILING
	ORIGINATOR	<u></u>	
	CHIEF, DS	<u></u>	
	D/CHIEF, DS	<u></u>	
	ASST. FOR TD	<u></u>	

DATE OF FINAL DISPOSITION:

COMMENTS:

ERIN GO BRAG-H!
12.4

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DRAFT
17 March 1967ADVANCED STEREO RHOMBOID PROTOTYPE MODEL II -- STAFF STUDY
#020871. PROBLEM:

To develop a device with and improved optical performance
~~This device will provide~~ more versatility and higher magnification than the
 Model I stereo rhomboid which is currently ~~in~~ ^a production model.

2. FACTS BEARING ON THE PROBLEM:

now scheduled for use
 The Model I stereo rhomboid incorporates only a single fixed objective
 magnification and is limited in image separation, especially the "Y" or front
 to back dimension. With the advent of more complex image acquisition systems a
 more versatile instrument is needed to cope with the new formats and ^{the} greater
 resolution of ~~the~~ advanced cameras. ~~Therefore,~~ ^{will} the development of a Model II
 stereo rhomboid has ~~been undertaken~~ ^{will} to meet the more rigorous demands of ~~these~~ ^{the}
 new acquisitions systems.

3. DISCUSSION:a. Current Procedure

During the initial run of roll film
 At the present time the photo interpreter's basic viewing device ⁱⁿ the

standard
~~Zoom 70 stereoscope with the~~ ^{designed} rhomboid. The Model I 25X

developed by NPIC
~~Stereo Rhomboid~~ will be arriving in production quantities within two or three
 months and will largely supplement ^{out} the less versatile ~~rhomboid~~ ^{rhomboid}. The Model 25X

will
~~I should~~ provide a very useful interim improvement in stereo viewing for the
 photo interpreter ~~until the more advanced model can be designed, developed and~~
~~produced in useful quantity.~~

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Conclusions mixed with facts
 what features
 of new
 instrument

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b. Origin of Concept

The standard Zoom 70 microstereoscope and rhomboid assembly was originally designed for use with 70 mm film chips, ~~as implied in its nomenclature.~~ This limited its usefulness for the larger stereo formats which are currently in use at NPIC. For this reason the Model I stereo rhomboid was designed and developed and it is now in production. The Model I being a relatively quick response product to a current requirement does not have the versatility or magnification necessary to cope with anticipated future formats and resolutions. The Model II is expected to provide the advanced capabilities to handle future imagery formats and resolutions and to overcome the inadequacies of the Model I.

repetitious

c. Proposed Program

This program will provide initially a prototype Model II rhomboid assembly for NPIC evaluation and testing. Upon acceptance of this prototype, a pre-production model will be fabricated and if found acceptable ~~the Model I~~ will be produced in quantities sufficient for NPIC requirements.

d. Selection of Contractor

This contract is to be awarded on a sole source basis because only one company, of the thirteen solicited, offered a proposal. This ^{company} was the [redacted] 25X

X1

e. Contract Period

A prototype advanced stereo rhomboid ^{ready for test and evaluation} is estimated to be deliverable twelve months from initiation of the contract.

f. Coordination

Internal and external coordination has been part of this project since its inception. The appropriate technical personnel of PAG and CIA/IAS have been briefed on this project. This project has been coordinated with DDS&T/ORD and presented to the Committee on Photographic Exploitation and representatives of

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Army, Navy and Air Force.

g. Alternative

There is no reasonable alternative to this development. It is a logical follow-on to the Model I Rhomboid which will be ~~an~~ extremely useful ~~interim~~ ^{for several years} ~~interim~~ ^{the Model I will eventually be replaced because it} ~~statement but which~~ does not have the added versatility and sophistication that the Model II provides.

5. RECOMMENDATIONS:

It is recommended that approval ^{be granted} to negotiate a contract with [] of FY-67 funds for a twelve-month ^{development} effort.

6. REFERENCE AND ATTACHMENTS:

Tab A - R&D Catalog Form

Tab B - Development Objectives

Attachment - [] Proposal and []

Advanced Stereo Rhomboid Study

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